

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L2	9	wu-charles\$.in.	EPO; JPO; DERW ENT; IBM_ TDB	2003/05/1 5 18:23	Rev'd images
2	BRS	L1	3	wu-charles\$.in. and @pd>20021102	USPA T; US-P GPUB	2003/05/1 5 18:23	Rev'd images
3	BRS	L4	0	((file or database or object) adj1 synchroni\$6) same detach\$5) and @pd>20021102	USPA T; US-P GPUB	2003/05/1 5 19:09	
4	BRS	L3	4	((file or database or object) adj1 synchroni\$6) same remov\$5) and @pd>20021102	USPA T; US-P GPUB	2003/05/1 5 18:26	Rev'd kwic + images
5	BRS	L5	2	5928329.URPN. and @pd>20021102	USPA T	2003/05/1 5 18:26	Rev'd images
6	BRS	L6	0	((file or database or object) adj1 synchroni\$6) same (memory adj1 card\$1)) and @pd>20021102	USPA T; US-P GPUB	2003/05/1 5 18:34	
7	BRS	L7	13	((file or database or object) adj1 synchroni\$6) and (remov\$5 near5 (memory or memories or disk or disks or disc or discs or storage)) and @pd>20021102	USPA T; US-P GPUB	2003/05/1 5 18:35	Rev'd kwic + images
8	BRS	L9	10	(palmtop\$1 or handheld\$1) and (memory adj1 card\$1) and @pd>20021102 and @ad<19990604	USPA T; US-P GPUB	2003/05/1 5 18:35	Rev'd kwic + images
9	BRS	L8	28	((file or database or object) near5 synchroni\$6) same remov\$5) and @pd>20021102	USPA T; US-P GPUB	2003/05/1 5 19:07	Rev'd kwic + images
10	IS&R	L12	9732	((709/220-223,217,219) or (707/10,201,203)).CCL S.	USPA T; US-P GPUB	2003/05/1 5 18:55	

	Error Definition	Er ro rs
1		0
2		0
3		0
4		0
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6		0
7		0
8		0
9		0
10		0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
11	BRS	L14	88	L12 and @pd>20021102 and @ad<19981012	USPAT; US-P GPUB	2003/05/15 18:57	Rev'd images
12	BRS	L16	18	l15 not L8	USPAT; US-P GPUB	2003/05/15 19:06	
13	BRS	L15	18	((file or database or object) near5 synchroni\$6) and remov\$5) and @pd>20021102 and @ad<19981012	USPAT; US-P GPUB	2003/05/15 19:05	Rev'd kwic + images
14	BRS	L18	1646	((data or information) near5 synchroni\$6) same (remov\$5 or detach\$5 or dock\$5)) and @ad<19981012	USPAT; US-P GPUB	2003/05/15 19:22	
15	BRS	L19	17	((file or files or database or object) near5 synchroni\$6) same (dock\$5)) and @ad<19981012	USPAT; US-P GPUB	2003/05/15 19:10	Rev'd kwic + images
16	BRS	L20	196	((data or information) near5 synchroni\$6) same (remov\$5 or detach\$5 or dock\$5)) and @ad<19981012 and (709/\$ or 707/\$ or 710/\$ or 713/\$ or 717/\$).ccls.	USPAT; US-P GPUB	2003/05/15 19:49	Rev'd kwic + images
17	BRS	L21	16	((files) near5 synchroni\$6) same (remov\$5 or detach\$5 or dock\$5)) and @ad<19981012 and (709/\$ or 707/\$ or 710/\$ or 713/\$ or 717/\$).ccls.	USPAT; US-P GPUB	2003/05/15 19:50	Rev'd kwic + images
18	BRS	L22	37	((data or information) near5 synchroni\$6) same (remov\$5 or detach\$5 or dock\$5)) and @pd<19981012 and (G06F\$).ipc.	EPO; JPO; DERWENT; IBM-TDB	2003/05/15 19:51	Rev'd kwic + images

	Error Definition	Er ro rs
11		0
12		0
13		0
14		0
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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
19	BRS	L23	0	((files) near5 synchroni\$6) same (remov\$5 or detach\$5 or dock\$5)) and @pd<19981012 and (G06F\$).ipc.	EPO; JPO; DERW ENT; IBM_ TDB	2003/05/1 5 19:54	

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... new feature lets you automatically import data from a file on your LAN every time you HotSync□giving you the ability to keep abreast of, say, additions to the corporate contact database. Beaming ...

archive.abcnews.go.com/sections/tech/Dai...ws/palmiii.html

Novell Technical Information Document

... integrating GroupWise with the 3COM PalmPilot Professional. This solution cuts the dependency on the PalmPilot HotSync process with a PC. First I will talk about this solution in a brief manner ...

support.novell.com/servlet/tidfinder/noheader/2932440

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Calvin's Pilot FAQ - Pilot News

... Now Software is selling the PalmPilot bundled with Now Up-to-Date & Contact, **Now Synchronize** and a Pilot MacPac, through April 30th. For more details, see their Now Syncronize Page. The new domain ...

www.ingrid.org/pilotfaq/970411/jp.6.19/news.htm

Too Many Greens, by Master Melora

... the best! They used to tell me I was building a green When I'd impressed four or five But they **now synchronize** When it's time to rise! I'm amazed I'm alive.... Once I oiled my dragon. When I was ...

www.xmission.com/~baal/hh/songs/greens_melora.html

Changi Manual: What's New

... well as for lists of hosts. Catching-up With Remote A new Chanx mode option -mC will **now synchronize** the watermark file with the remote newsserver without downloading a single article. This option ...

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... them with one another. The Digital Timepiece offers several synchronization firsts. For example, users can now synchronize a stack of Alesis ADAT™ recorders with a stack of Tascam DA-88™ recorders ...
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... on it to pass these changes on to other replicas the replica set. Note&&& You can now synchronize replicas over the Internet. Before you can synchronize over the Internet, you must configure your ...
intranet.mathtechinc.com/doc/bldapps/chapters/ba20_7.htm

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... PDAs. Examples of developers taking advantage of this technology include Now Software with their Now Synchronize solution and LandWare with Sync+ for Microsoft Schedule+. -30- Apple, the Apple ...
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W. H. Calvin's THE CEREBRAL SYMPHONY (ch.11. A Whole New Ball Game: Bootstrapping Thought Through Throwing)

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Palm OS® Software Overviews

Palm OS Software 5.2 Overview

Development overview of Palm OS 5.2 and 4.1.2.

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Palm OS Software 4.1 Overview

Overview of bug fixes incorporated into Palm OS 4.1. Note that Palm OS 4.1 is essentially the same as version 4.0 and that no new features have been added.

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Palm OS Software 4.0 Overview

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Palm OS Software 3.5 Overview

The development overview predates the final documentation and tools, but is a useful introduction. Also, see the **Top Issues** when developing for Palm OS 3.5.

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Web Clipping Developer's Guide (5/1/2001)

Describes how to develop wireless applications using "lightweight" HTML.



Zen of Palm (12/06/2002)

Describes design philosophies and practices for developing Palm OS applications.



Conduit Documentation

Conduit Documentation - Windows (7/1/2002)

Provides extensive conceptual and reference information on developing conduits to exchange and synchronize data between a Windows application and a Palm Powered™ handheld.



Conduit Documentation - Mac OS (6/19/2002)

Provides extensive conceptual and reference information on developing conduits to exchange and synchronize data between a Mac OS application and a Palm Powered™ handheld.



Additional Information

Palm OS Programming Recipes

Palm OS Programming recipes are technical articles with step-by-step explanations describing how to perform specific tasks related to Palm OS programming. They are different from existing sample code because they have step-by-step explanations about specific subjects.



Hardware Development

See the **Hardware Development** pages, including the Hardware Comparison Matrix.



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Accessing a Handheld Database with the Sync Manager API

- ▶ This recipe shows you how to access a handheld database by calling the Sync Manager API in your conduit. The Sync Manager API is a low-level interface with which you can implement your own synchronization logic. (Alternatively, you may use one of the conduit frameworks, which implement Palm's standard synchronization logic, provided in the Palm™ Conduit Development Kit.)
- ▶ This recipe accesses the Date Book database on the handheld using Sync Manager API functions in the following steps:
- ▶ 1. Call `SyncRegisterConduit` to register the conduit for Sync Manager access.
- ▶ 2. Call `SyncOpenDB` to open the handheld database (or optionally create the database).
- ▶ 3. Call Sync Manager API functions to access and edit the handheld database.
- ▶ 4. Call `SyncCloseDB` to allow other conduits access to handheld databases.
- ▶ 5. Call `SyncUnRegisterConduit` to release Sync Manager access to other conduits.

1. Call `SyncRegisterConduit`

The following code shows declarations used in this and the following steps and then shows how to register your conduit with the Sync Manager:

```
#define DB_NAME "DatebookDB"
#define LOG_STRING "%s returned %d"

CONHANDLE hSyncHandle; // handle to use Sync Manager functions
BYTE hDataBase; // handle to the remote database
WORD rNumRecs; // number of records in the database

// First, we must register the conduit to use Sync Manager calls.
if (retval = SyncRegisterConduit(hSyncHandle))
{
    // SyncRegisterConduit failed: Handle the error code.
    return (retval);
}
```

2. Call `SyncOpenDB`

You must open (or create) a database before you can access it.

```
// Open the DatabookDB database.
if (retval = SyncOpenDB(DB_NAME, 0, hDataBase,
    (eDbRead|eDbWrite|eDbShowSecret)))
{
    // SyncOpenDB failed: Handle the error code.
    // TODO - If the database does not exist, create it.
    return (retval);
}
```

3. Call Sync Manager API Functions

With the database open, you can now access it. The code below shows a simple example of getting the number of records in the database and printing the result to the HotSync(R) log. At this point, you can implement your synchronization logic.

```
// Retrieve the record count for the DatebookDB.
```

```
:           if (retval = SyncGetDBRecordCount(hDataBase, iNumRecs))
{
    // SyncGetDBRecordCount failed: Handle the error code.
    return (retval);
}

// The call to SyncGetDBRecordCount was successful, write the
// result to log.
if (retval = LogAddFormattedEntry(slText, true, LOG_STRING,
    "LogAddFormattedEntry", rNumRecs))
{
    // LogAddFormattedEntry failed: Handle the error code.
    return (retval);
}
```

4. Call **SyncCloseDB**

After you finish with a database, you must close it so that another conduit (or handheld application) can access it.

```
// The Sync Manager allows only one database to be open at a time,
// so close the database.
if (retval = SyncCloseDB(hDataBase))
{
    // SyncCloseDB failed: Handle the error code.
    return (retval);
}
```

5. Call **SyncUnRegisterConduit**

Before your conduit completes, you must unregister it so that other conduits can call the Sync Manager.

```
// Unregister this conduit so that the next conduit
// can use the Sync Manager.
if (retval = SyncUnRegisterConduit(hSyncHandle))
{
    // SyncUnRegisterConduit failed: Handle the error code.
    return (retval);
}
```

Summary

You should now have a basic understanding of the usage of the Sync Manager API for accessing handheld databases. The next phase of the development process should be the definition of a synchronization strategy and a record format for the handheld and the desktop computer.

NOTE: For the sake of simplicity and focusing on the code sequence, this code only catches errors and returns an error code to the caller function. In your conduit, you must handle the specific error codes returned by each Sync Manager function. The connection with the handheld may be interrupted at any time and, so you must check for errors after each Sync Manager function call. Read about the **Sync Manager error codes** in the **C/C++ Sync Suite Reference** for more information.